

10/627,394

STN - STRUCTURE SEARCH

10/13/04

=> d ibib abs hitstr 1-11

L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:778163 CAPLUS
DOCUMENT NUMBER: 135:336978
TITLE: Photothermographic material containing
development-inhibitor-releasing redox compound
INVENTOR(S): Hirano, Shigeo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 53 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001296634	A2	20011026	JP 2000-110938	20000412

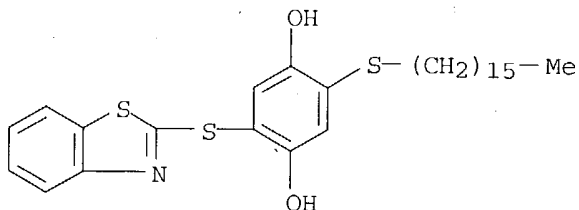
PRIORITY APPLN. INFO.: JP 2000-110938 20000412

AB The material has an image forming layer on ≥ 1 side of a support, containing a reducible Ag salt, a reducing agent, a binder, and A(Time)tX [A = redox nucleus comprising atoms releasing (Time)tX group by oxidation during development; Time = timing group linking to A with S, N, O, or Se atom; t = 0, 1; X = developer inhibiting group]. It shows reduced dependency on temperature and humidity, and is useful for black-and-white image formation.

IT **369652-82-4**
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(photothermog. material containing development inhibitor releasing redox compound)

RN 369652-82-4 CAPLUS

CN 1,4-Benzenediol, 2-(2-benzothiazolylthio)-5-(hexadecylthio)- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:116678 CAPLUS
DOCUMENT NUMBER: 130:170503
TITLE: Heterocyclic thioether as additive for lubricating agent
INVENTOR(S): Camenzind, Hugo; Evans, Samuel; Dratva, Alfred; Haenggi, Peter
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19834951	A1	19990211	DE 1998-19834951	19980803
GB 2327944	A1	19990210	GB 1998-15480	19980717
BE 1012345	A5	20001003	BE 1998-579	19980731
NL 1009793	A1	19990209	NL 1998-1009793	19980803
NL 1009793	C2	20000531		
JP 11124375	A2	19990511	JP 1998-231158	19980803
US 6150307	A	20001121	US 1998-128086	19980803
CA 2244492	AA	19990206	CA 1998-2244492	19980804
FR 2767828	A1	19990305	FR 1998-9987	19980804
FR 2767828	B1	20020712		
TW 466270	B	20011201	TW 1998-87112796	19980804
NO 9803594	A	19990208	NO 1998-3594	19980805
ZA 9807011	A	19990208	ZA 1998-7011	19980805
CN 1207387	A	19990210	CN 1998-118002	19980805
CN 1104425	B	20030402		
IT 1302004	B1	20000720	IT 1998-MI1848	19980805
ES 2154162	A1	20010316	ES 1998-1670	19980805
ES 2154162	B1	20020701		
BR 9802852	A	20000328	BR 1998-2852	19980806
US 6362138	B1	20020326	US 2000-663822	20000915
PRIORITY APPLN. INFO.:			CH 1997-1863	A 19970806
			US 1998-128086	A1 19980803

OTHER SOURCE(S): MARPAT 130:170503

AB Heterocyclic thioethers are useful as ashfree antiwear agents and antioxidants for lubricants and fuels.

IT 220344-72-9P 220344-73-0P 220344-74-1P

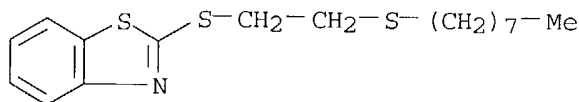
220344-75-2P 220344-76-3P

RL: IMF (Industrial manufacture); PREP (Preparation)

(heterocyclic thioethers as additives for lubricating agents and fuels)

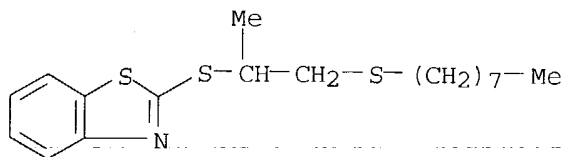
RN 220344-72-9 CAPLUS

CN Benzothiazole, 2-[[2-(octylthio)ethyl]thio]- (9CI) (CA INDEX NAME)



RN 220344-73-0 CAPLUS

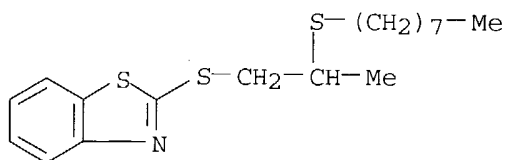
CN Benzothiazole, 2-[[1-methyl-2-(octylthio)ethyl]thio]- (9CI) (CA INDEX NAME)



RN 220344-74-1 CAPLUS

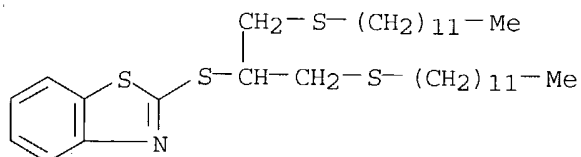
CN Benzothiazole, 2-[[2-(octylthio)propyl]thio]- (9CI) (CA INDEX NAME)

10/627,394



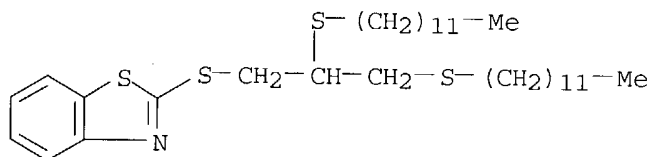
RN 220344-75-2 CAPLUS

CN Benzothiazole, 2-[[2-(dodecylthio)-1-[(dodecylthio)methyl]ethyl]thio] - (9CI) (CA INDEX NAME)



RN 220344-76-3 CAPLUS

CN Benzothiazole, 2-[[2,3-bis(dodecylthio)propyl]thio] - (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:667695 CAPLUS

DOCUMENT NUMBER: 121:267695

TITLE: Silver halide photographic materials using hydroquinone derivative development-inhibitor-releasing agent

INVENTOR(S): Ishige, Osamu; Kato, Eisaku

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

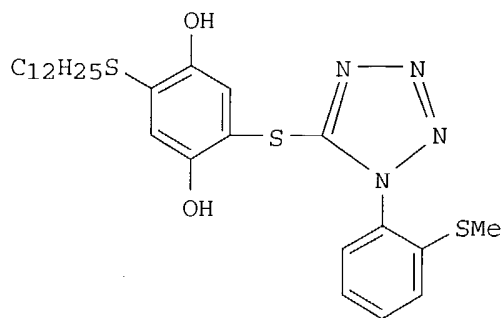
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06175308	A2	19940624	JP 1992-325678	19921204
PRIORITY APPLN. INFO.: GI			JP 1992-325678	19921204



I

AB The title photog. materials contain a compound A(Time)lINH-Q [A = (substituted) hydroquinone residue, catechol residue, naphthohydroquinone residue, sulfonamidophenol residue; Time = timing group; l = 0-2; INH-Q = development inhibitor residue linking to (Time)l via hetero atom; Q = group able to substitute to INH and having ≥ 1 thioether bond as a partial structure, Q dose not bond directly via S atom to the heterocyclic part of INH]. The materials show high sharpness, suppressed interlayer effect, and good storage stability. Thus, a color photog. film was prepared by using a red-sensitive Ag(I, Br) emulsion layer containing I:

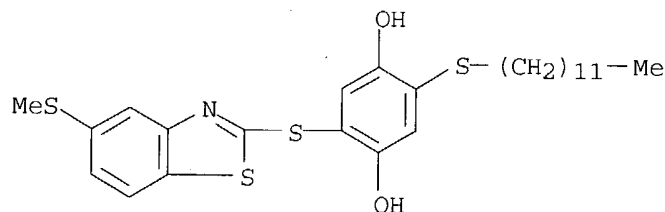
IT 158671-97-7

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(silver halide color photog. emulsion containing hydroquinone derivative development-inhibitor-releasing agent for high sharpness and storage stability)

RN 158671-97-7 CAPLUS

CN 1,4-Benzenediol, 2-(dodecylthio)-5-[[5-(methylthio)-2-benzothiazolyl]thio]-(9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:483384 CAPLUS

DOCUMENT NUMBER: 121:83384

TITLE: Preparation of (benzothiazolylthio)triazines as lubricant additives

INVENTOR(S): Camenzind, Hugo

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

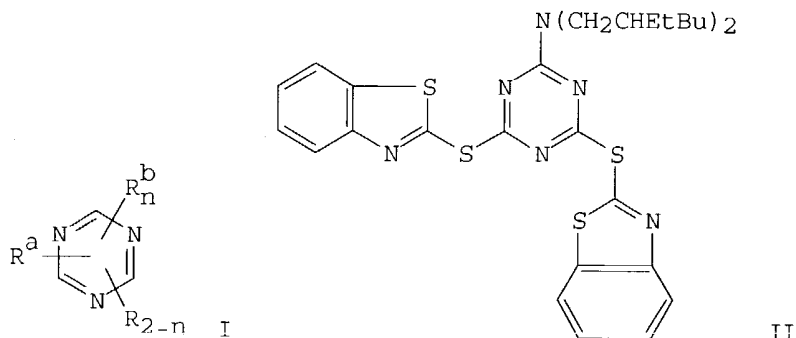
KIND DATE

APPLICATION NO.

DATE

10/627,394

EP 595771	A1	19940504	EP 1993-810743	19931021
EP 595771	B1	19961127		
R: DE, FR, GB, IT				
US 5433873	A	19950718	US 1993-140574	19931021
JP 06199852	A2	19940719	JP 1993-294048	19931029
PRIORITY APPLN. INFO.:			CH 1992-3389	A 19921030
OTHER SOURCE(S):	MARPAT 121:83384			
GI				

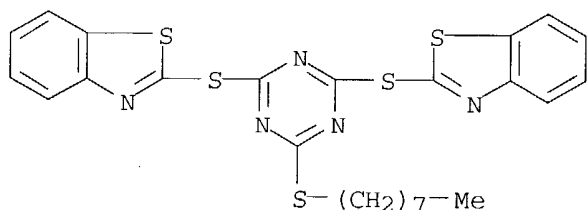


AB Title compds. (I; R, R_a = OR1, SR2, NR3R4; R_b = 2-benzothiazolylthio; R1, R3, R4 = H, C1-30 alkyl, Ph, naphthyl, etc.; R2 = C1-30 alkyl, Ph, naphthyl, etc.; NR3R4 = piperidino, pyrrolidino, azepino; n = 1 or 2) were prepared. Thus, cyanuric chloride was aminated by $HN(CH_2CH_2EtBu)_2$ and the product thioetherified by 2-mercaptobenzothiazole to give title compound II. Data for antiwear and antioxidant properties of 4 prepared I were given.

IT **156275-71-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as lubricant additive)

RN 156275-71-7 CAPLUS

CN Benzothiazole, 2,2'-[[6-(octylthio)-1,3,5-triazine-2,4-diyl]bis(thio)]bis-(9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN.

ACCESSION NUMBER: 1992:642492 CAPLUS

DOCUMENT NUMBER: 117:242492

TITLE: Organosulfur resin for optical components

INVENTOR(S): Miyazaki, Takeshi; Murata, Takashige

PATENT ASSIGNEE(S): Nippon Yushi K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

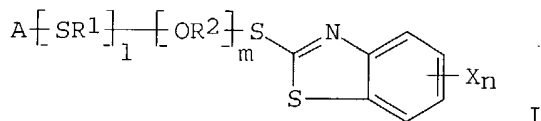
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

10/627,394

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04063301	A2	19920228	JP 1990-174562	19900703
PRIORITY APPLN. INFO.: GI			JP 1990-174562	19900703



AB The resin comprises a copolymer of monomers containing I (A = OCC(R3):CH2; CH2CH2OCC(R3):CH2; CH2CH(OH)CH2OCC(R3):CH2; CH2CH2COOCH2CH(OH)CH2OCC(R3):CH2, CH2C6H4(CH:CH2); R3 = H, Me; R1,R2 = Cl-6 alkylene; X = Cl, Br, I; and l,m,n = 0-2. The resin (heat-, chemical-, shock-resistant; n > 1.53; a small chromatic aberration; strain-free) is suited for fabricating optical lenses.

IT 144394-02-5

RL: USES (Uses)
(plastic optical lenses from)

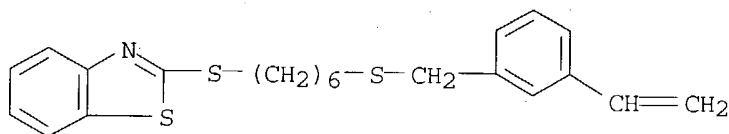
RN 144394-02-5 CAPLUS

CN Benzothiazole, 2-[[6-[[[(3-ethenylphenyl)methyl]thio]hexyl]thio]-, polymer with α-(2-methyl-1-oxo-2-propenyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 144394-01-4

CMF C22 H25 N S3

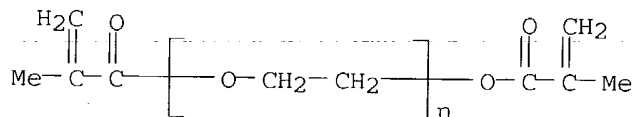


CM 2

CRN 25852-47-5

CMF (C2 H4 O)n C8 H10 O3

CCI PMS



L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:224622 CAPLUS

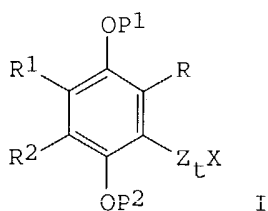
DOCUMENT NUMBER: 116:224622

TITLE: Silver halide photographic material having redox compound emulsion layer

10/627,394

INVENTOR(S): Kato, Kazunobu; Hirano, Shigeo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03291645	A2	19911220	JP 1990-94550	19900410
PRIORITY APPLN. INFO.: GI			JP 1990-94550	19900410



AB In the material consisting of a support coated with a 1st Ag halide emulsion layer containing a redox compound AZ_tX (A = oxidation-reduction center or its precursor exclusive of hydrazine; Z = timing group which eliminates by oxidation in development; X = development-preventing agent; t = 0, 1) and a 2nd emulsion layer with higher sensitivity than the 1st layer, the 2nd layer or an adjacent hydrophilic colloid layer contains a hydrazine derivative. The material may contain a redox compound I (R-R₂ = H, group substitutable on the hydroquinone ring; P₁, P₂ = H, protecting group cleavable in development). The material showed good dot gradation.

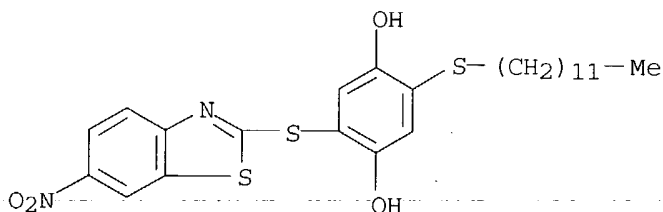
IT 141187-73-7

RL: USES (Uses)

(photog. material emulsion layer containing, for good dot gradation)

RN 141187-73-7 CAPLUS

CN 1,4-Benzenediol, 2-(dodecylthio)-5-[(6-nitro-2-benzothiazolyl)thio]- (9CI)
(CA INDEX NAME)



L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:140026 CAPLUS

DOCUMENT NUMBER: 116:140026

TITLE: Diffusion transfer type silver halide color photosensitive materials

INVENTOR(S): Matsuda, Naoto; Nakamine, Takeshi; Hirai, Hiroyuki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

10/627,394

SOURCE: Eur. Pat. Appl., 75 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 451833	A1	19911016	EP 1991-105764	19910411
EP 451833	B1	19960710		
R: DE, FR, GB, IT, NL				
JP 03293666	A2	19911225	JP 1990-96756	19900412
JP 2649855	B2	19970903		
US 5206131	A	19930427	US 1991-683913	19910411
PRIORITY APPLN. INFO.:			JP 1990-96756	19900412

OTHER SOURCE(S): MARPAT 116:140026

AB A diffusion transfer-type Ag halide color photog. photosensitive material comprises a support, having >1 photosensitive Ag halide, a binder, a dye donating compound which is fast to diffusion and which forms or releases a diffusible dye, a development inhibitor releasing compound which releases a development inhibitor, and R₁YOH (I; R₁ = alkyl, aryl, alkylamino, arylamino, alkoxy, aryloxy, heterocyclyl or a polymer residual group; Y = CONR₂ or SO₂NR₂; R₂ = H, alkyl, aryl, acyl; R₁R₂ = 5- or 8-member ring). An improvement in color reproduction for the diffusion transfer type color photog. is achieved by the conjoint use of I with development inhibitor releasing compds.

IT 139673-38-4

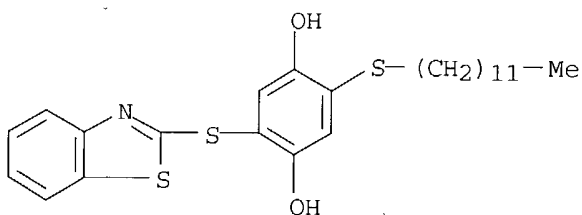
RL: USES (Uses)

(developer inhibitor releasing coupler, photosensitive composition containing

amide or sulfonamide compound and, for color photog. materials)

RN 139673-38-4 CAPLUS

CN 1,4-Benzenediol, 2-(2-benzothiazolylthio)-5-(dodecylthio)- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:477287 CAPLUS

DOCUMENT NUMBER: 107:77287

TITLE: Phase-transfer synthesis of symmetrical and unsymmetrical dialkyl trithiocarbonates

AUTHOR(S): Degani, Iacopo; Fochi, Rita; Gatti, Antonella; Regondi, Valeria

CORPORATE SOURCE: Ist. Chim. Org., Univ. Torino, Turin, I-10125, Italy

SOURCE: Synthesis (1986), (11), 894-9
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:77287

AB Quaternary ammonium salts and Me(CH₂)₁₅P+Bu₃ Br- catalyzed the reactions

10/627,394

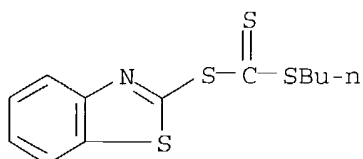
of CS₂ with Na₂S and organic halides and with thiols and organic halides. Esters R₁SC(S)SR₁ (R₁ = alkyl, PhCH₂, allyl) and R₂SC(S)SR₃ (R₂ = alkyl, PhCH₂, 2-benzothiazolyl; R₃ = alkyl, PhCH₂, allyl) were prepared

IT 89622-62-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 89622-62-8 CAPLUS

CN Carbonotrithioic acid, 2-benzothiazolyl butyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:209908 CAPLUS

DOCUMENT NUMBER: 104:209908

TITLE: Lubricant additives

INVENTOR(S): Wirth, Hermann O.; Friedrich, Hans Helmut

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz..

SOURCE: Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

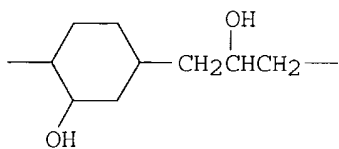
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 166696	A2	19860102	EP 1985-810292	19850624
EP 166696	A3	19860514		
EP 166696	B1	19890719		
R: BE, DE, FR, GB, IT				
CA 1260479	A1	19890926	CA 1985-485483	19850627
JP 61031494	A2	19860213	JP 1985-143820	19850629
JP 06074433	B4	19940921		
US 4931576	A	19900605	US 1988-213509	19880628
US 5618778	A	19970408	US 1995-422670	19950412
US 5892051	A	19990406	US 1996-769678	19961216
PRIORITY APPLN. INFO.:			CH 1984-3148	A 19840629
			CH 1985-2047	A 19850514
			US 1985-750618	B1 19850701
			US 1985-750839	B1 19850701
			US 1986-894460	B1 19860730
			US 1987-18793	B1 19870220
			US 1987-23939	B1 19870305
			US 1987-107896	B1 19871009
			US 1991-717163	B1 19910617
			US 1992-825437	B1 19920123
			US 1992-999173	B1 19921228
			US 1995-422670	A3 19950412

GI



I

AB Multifunctional lubricant additives (including antiwear-extreme pressure, present at 0.25-2.5 weight% in a base oil) have a general formula $\text{RSCH}_2\text{CH}(\text{OH})\text{CH}_2\text{SR}_4$, (R = alkyl, aryl, H, cycloalkyl, alkylaryl, heteroaryl, or alkylheteroaryl; R_4 = C5-6-cycloalkyl, Ph, aminophenyl, C1-16-alkyl, C1-16-alkyl substituted by NH_2 , Ph, 2-oxopyrrolidino, CN, perfluoro-C1-8-alkyl, 2 OH-groups, or containing ether or sulfide linkages). Especially, R = $\text{R}_1\text{R}_2\text{R}_3\text{C}$, in which R_1 , R_2 , and R_3 are (independently)

C1-18-alkyl

and contain <22 C atoms total. In addition, R_4 can be a number of other groups,

such as $(\text{CH}_2)_0\text{-6SCH}_2\text{CHOHCH}_2\text{S}(\text{C1-16-alkyl})$, $(\text{CH}_2)_1\text{-2CO}_2\text{R}_5$ (R_5 = H, C1-16-alkyl, or alkali metal salt), $(\text{CH}_2)_1\text{-2CO}_2\text{H.H}_2\text{NR}_6$ (R_6 = C8-16-alkyl), $\text{P}(\text{:X})(\text{OR}_7)_2$ (X = O or S, R_7 = C1-16-alkyl, Ph, or tolyl), naphthyl or heteroaryl, SO_3M or $\text{C}_6\text{H}_4\text{CO}_2\text{M}$ (M = alkali metal), $(\text{CH}_2)_1\text{-4 R}_8$ (R_8 = heteroaryl), $(\text{CH}_2)_1\text{-2CONR}_9\text{R}_{10}$ (R_9 = unsubstituted or substituted C1-16-alkyl, R_{10} = H or R_9), $\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{SR}_{11}$ (R_{11} = H or C1-16-alkyl), $\text{R}_{12}\text{SCH}_2\text{CH}(\text{OH})\text{CH}_2\text{SR}$ (R is as above, R_{12} = $(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2$, $(\text{CH}_2)_0\text{-8}$, arylene, I, or derived from bisphenol A diglycidyl ether). Thus, 1 weight% $\text{RSCH}_2\text{CH}(\text{OH})\text{CH}_2\text{SCH}_2\text{CH}_2\text{OH}$ (R = tert-dodecyl) in a base oil was tested in a Shell 4-ball apparatus, resulting in 2200 N weld load and 0.50 mm wear scar diameter. The additives are typically prepared by reaction of a thiol with an alkylthioglycidyl ether.

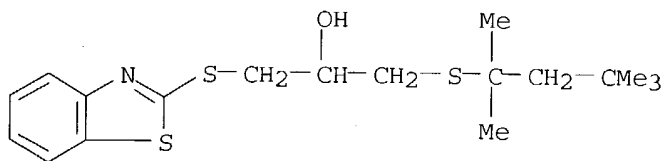
IT 101855-81-6 101855-84-9

RL: USES (Uses)

(lubricating oil multifunctional additives)

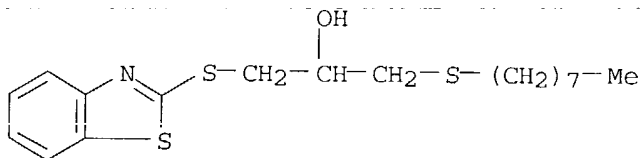
RN 101855-81-6 CAPLUS

CN 2-Propanol, 1-(2-benzothiazolylthio)-3-[(1,1,3,3-tetramethylbutyl)thio]- (9CI) (CA INDEX NAME)



RN 101855-84-9 CAPLUS

CN 2-Propanol, 1-(2-benzothiazolylthio)-3-(octylthio)- (9CI) (CA INDEX NAME)



10/627,394

DOCUMENT NUMBER: 100:156239
TITLE: Trithiocarbonic acid diesters
INVENTOR(S): Degani, Iacopo; Fochi, Rita; Regondi, Valeria
PATENT ASSIGNEE(S): Consiglio Nazionale delle Ricerche, Italy
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

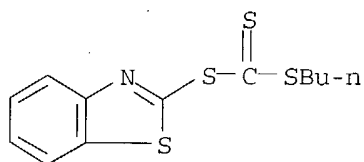
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
EP 97626	A1	19840104	EP 1983-830123	19830622	
EP 97626	B1	19860409			
R: AT, BE, DE, FR, GB, NL					
AT 19063	E	19860415	AT 1983-830123	19830622	
JP 59046263	A2	19840315	JP 1983-111966	19830623	
JP 61047831	B4	19861021			
US 4868322	A	19890919	US 1988-212135	19880628	
PRIORITY APPLN. INFO.:				IT 1982-22010	19820623
				US 1983-505960	19830620
				EP 1983-830123	19830622

AB CS2 was treated with mercaptans, or inorg. sulfides, and alkyl halides in the presence of quaternary ammonium and phosphonium salts to yield diesters. Thus, CS2 was treated with Na2S, octyl bromide, and (C8H17)3N+Me Cl- to give dioctyl trithiocarbonate. The reaction of CS2, BuSH, and octyl bromide with the above catalyst gave BuSC(S)S(CH2)7Me.

IT **89622-62-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 89622-62-8 CAPLUS

CN Carbonotrithioic acid, 2-benzothiazolyl butyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1967:55430 CAPLUS

DOCUMENT NUMBER: 66:55430

TITLE: Syntheses based on 2-benzothiazolyl vinyl sulfide

AUTHOR(S): Prilezhaeva, E. N.; Shmonina, L. I.

CORPORATE SOURCE: N. D. Zelinskii Inst. Org. Chem., Moscow, USSR

SOURCE: Zhurnal Organicheskoi Khimii (1966), 2(10), 1883-91
CODEN: ZORKAE; ISSN: 0514-7492

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB 2-Benzothiazolyl vinyl sulfide and its sulfone were subjected to free radical-catalyzed addns. to the vinyl group of the former and nucleophilic addns. to the vinyl group of the latter to yield products for potential tests of physiol. activity. While the above sulfide has nucleophilic character in its vinyl group, the sulfone had only electrophilic character in its vinyl group. The free radical reactions of the sulfide were inhibited by atmospheric O and subjected at times to inverted orientation. Oxidation of the substituted 2-benzothiazoles with S in the side-chain did

10/627,394

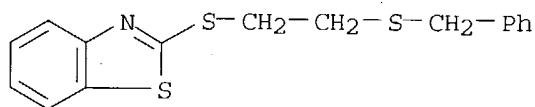
not involve the hetero atom in the ring. The free radical addns. were run with (:NCMe2CN)2 initiator under N at 75-80°. The following products were reported: 2-RSCH2CH2SCMe3 (R = 2-benzothiazolyl group), b0.02 103-5°; 2-RSCH2CH2SPh, b0.02 128-30°; 2-RSCH2CH2SCH2Ph, b0.02 181-3°; 2-RSCH2CH2SAc, b0.02 127.5-30°; 2-RSCH2CH2SCH2CH2OH, b0.02 148-53°; 2-RSOCH:CH2, m. 45-6°; 2-RSO2CH:CH2, m. 86-7°; 2-RSO2CH2CH2OEt, m. 60.5-1.5°; 2-RSO2CH2CH2SEt, m. 71-2.5°; 2-RSO2CH2CH2SBu, m. 46.5-7.5°; 2-RSO2CH2CH2SPh, m. 80-1.5°; 2-RSO2CH2CH2NPr2, m. 45.5-46°; 2-RSO2CH2CH2NBu2 m. 60-1°; 2-RSO2CH2CH2SO2Et, m. 148-9°; 2-RSO2CH2CH2SO2CMe3, m. 147-8°; 2-RSCH2CH2SO3H, m. 145-6°; 2-RSO2CH2CH2SOPh, m. 160-1°; 2-RSO2CH2CH2SOCH2Ph, m. 135-6°; 2-RSO2CH2CH2SO2Ph, m. 176.5-7.5°; 2-RSO2CH2CH2SO2CH2Ph, m. 165-6°; 2 - RSO2CH2CH2SO3Me, m. 119-20°. The sulfoxidns. were performed conventionally with AcO2H. spectra of products were reported.

IT 13604-16-5P 13604-23-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

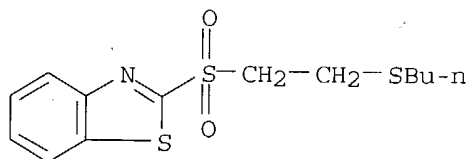
RN 13604-16-5 CAPLUS

CN Benzothiazole, 2-[[2-(benzylthio)ethyl]thio]- (8CI) (CA INDEX NAME)



RN 13604-23-4 CAPLUS

CN Benzothiazole, 2-[[2-(butylthio)ethyl]sulfonyl]- (8CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 15:06:12 ON 13 OCT 2004)

FILE 'REGISTRY' ENTERED AT 15:06:29 ON 13 OCT 2004

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 20 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:07:02 ON 13 OCT 2004

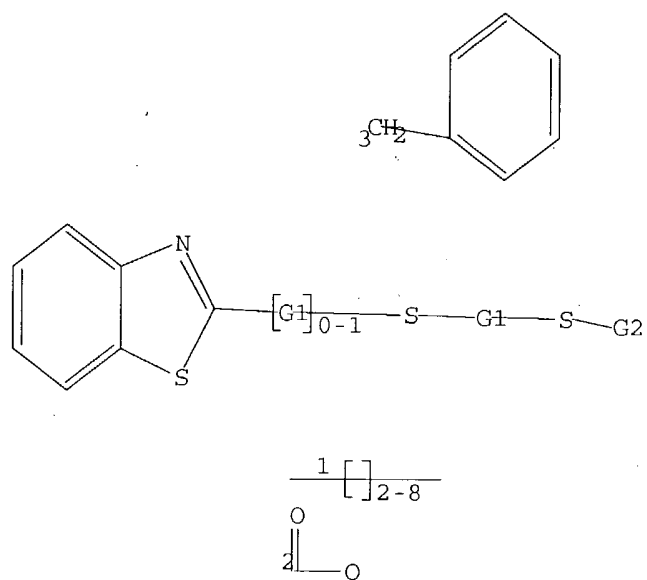
L4 11 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR

10/627,394



G1 Cy,Ak

G2 H, [@1], [@2], [@3]

Structure attributes must be viewed using STN Express query preparation.

=>

10/627,394

10/13/04

=> d ibib abs hitstr

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:355881 CAPLUS
DOCUMENT NUMBER: 138:370658
TITLE: Method and catalysts for producing **bisphenols**
INVENTOR(S): Webb, Jimmy Lynn; Spivack, James Lawrence
PATENT ASSIGNEE(S): General Electric Company, USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003088130	A1	20030508	US 2001-954909	20010918
US 6620939	B2	20030916		
WO 2004078345	A1	20040916	WO 2003-US6435	20030303

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004019242	A1	20040129	US 2003-627445	20030725
---------------	----	----------	----------------	----------

PRIORITY APPLN. INFO.: US 2001-954909 A 20010918

OTHER SOURCE(S): CASREACT 138:370658; MARPAT 138:370658

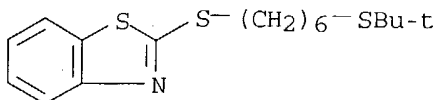
AB This disclosure relates to a method for producing and using catalysts in the production of **bisphenols**, and in particular to a method for producing catalysts which contain poly-sulfur mercaptan promoters attached to solid acid supports, and using these catalysts in the production of bisphenol-A and its derivs.

IT 521310-21-4 521310-23-6 521310-32-7
521310-34-9 521310-36-1

RL: CAT (Catalyst use); USES (Uses)
(promoter; method and catalysts for producing **bisphenols**)

RN 521310-21-4 CAPLUS

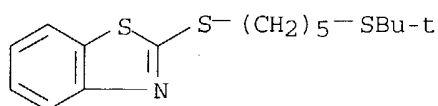
CN Benzothiazole, 2-[[6-[(1,1-dimethylethyl)thio]hexyl]thio]- (9CI) (CA INDEX NAME)



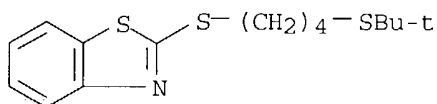
RN 521310-23-6 CAPLUS

CN Benzothiazole, 2-[[5-[(1,1-dimethylethyl)thio]pentyl]thio]- (9CI) (CA INDEX NAME)

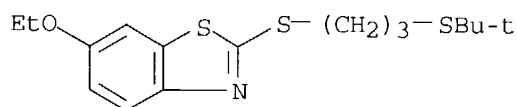
10/627,394



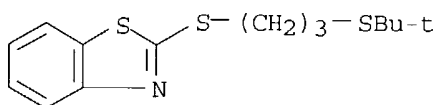
RN 521310-32-7 CAPLUS
CN Benzothiazole, 2-[[4-[(1,1-dimethylethyl)thio]butyl]thio]- (9CI) (CA INDEX NAME)



RN 521310-34-9 CAPLUS
CN Benzothiazole, 2-[[3-[(1,1-dimethylethyl)thio]propyl]thio]-6-ethoxy- (9CI) (CA INDEX NAME)



RN 521310-36-1 CAPLUS
CN Benzothiazole, 2-[[3-[(1,1-dimethylethyl)thio]propyl]thio]- (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 14:56:17 ON 13 OCT 2004)

FILE 'REGISTRY' ENTERED AT 14:56:31 ON 13 OCT 2004

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 19 S L2
L4 540 S L2 FULL

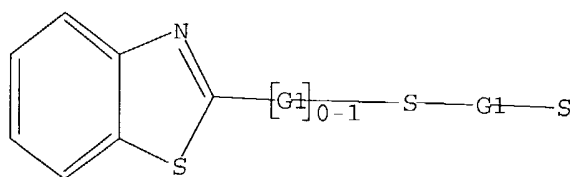
FILE 'CAPLUS' ENTERED AT 14:59:25 ON 13 OCT 2004

L5 695 S L4
L6 4568 S BISPHENOLS
L7 1 S L5 AND L6

=> d 12

L2 HAS NO ANSWERS
L2 STR

10/627,394



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=>

Day : Wednesday

Date: 10/13/2004

Time: 16:54:24

PALM INTRANET

Inventor Name Search Result

Your Search was:

Last Name = WEBB

First Name = JIMMY

Application#	Patent#	Status	Date Filed	Title
<u>60134692</u>	Not Issued	159	05/18/1999	RESORCINOL PHTHALATE POLYMERS AND COPOLYMERS WITH GOOD MELT STABILITY
<u>60128339</u>	Not Issued	159	04/08/1999	HIGHLY WEATHEABLE ARTICLES WITH RESORCINOL POLYARYLATE OUTER LAYERS
<u>60021750</u>	Not Issued	159	07/15/1996	QUARTERNARY BISPHENOLATES, METHODS FOR THEIR PREPARATION, AND USES THEREOF
<u>29040857</u>	Not Issued	161	06/29/1995	SPRAY FENDER FOR AN AGRICULTURAL VEHICLE
✓ <u>10627445</u>	Not Issued	071	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
<u>10627423</u>	Not Issued	030	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
✓ <u>10627394</u>	Not Issued	030	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
<u>10626990</u>	Not Issued	030	07/25/2003	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
<u>10410693</u>	Not Issued	061	04/11/2003	WEATHERABLE BLOCK COPOLYESTERCARBONATES, BLENDS CONTAININ THEM, AND METHOD
<u>10409067</u>	Not Issued	061	04/08/2003	WEATHERABLE MULTILAYER RESINOUS ARTICLE AND METHOD FOR THEIR PREPARTION
✗ <u>09954914</u>	6534686	150	09/18/2001	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS
✗ <u>09954909</u>	6620939	150	09/18/2001	METHOD FOR PRODUCING BISPHENOL CATALYST AND BISPHENOLS

<u>09916160</u>	<u>6538065</u>	150	07/26/2001	METHOD FOR PREPARING COPOLYESTERCARBONATES AND ARTICLES THEREFROM
<u>09741627</u>	<u>6414200</u>	150	12/19/2000	SILYLMETHANETHIOLS AS PROMOTERS FOR BISPHENOL PRODUCTION
<u>09251244</u>	<u>6440364</u>	150	02/16/1999	METHOD OF DEGASSING ABSORBABLE SUTURE PRODUCTS
<u>08758108</u>	<u>5663406</u>	150	11/25/1996	FORMATION OF CARBONATE ESTERS AND ORTHOCARBONATES
<u>08673540</u>	Not Issued	161	07/01/1996	PROCESS FOR REMEDIATION OF A CONTAMINATE PARTICULATED MATERIAL
<u>08673484</u>	<u>5779810</u>	150	07/01/1996	METHOD TO REMOVE HALOGENATED HYDROCARBONS FROM PARTICULATE MATTER
<u>08611609</u>	<u>5797995</u>	150	03/08/1996	METHOD FOR THERMAL REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM SOI
<u>08523177</u>	<u>5688335</u>	150	09/05/1995	CONTAMINANT REMOVAL FROM MATERIAL
<u>08494040</u>	Not Issued	166	06/26/1995	FORMATION OF CARBONATE ESTERS AND ORTHOCARBONATES
<u>08407454</u>	Not Issued	166	03/20/1995	METHOD FOR THERMAL REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM SOI
<u>08300900</u>	Not Issued	168	09/06/1994	METHOD TO REMOVE HALOGENATED HYDROCARBONS FROM PARTICULATE MATTER
<u>08300899</u>	<u>5520745</u>	150	09/06/1994	REMEDIATION OF CONTAMINATED MATERIAL
<u>08254628</u>	<u>5430232</u>	250	06/06/1994	ENHANCED VOLATILIZATION OF POLYCHLORINATED BIPHENYL COMPOUNDS
<u>08242768</u>	Not Issued	168	05/16/1994	PROCESS FOR REMEDIATION OF A CONTAMINATE PARTICULATE MATERIAL
<u>08055599</u>	<u>5391300</u>	150	05/03/1993	METHOD FOR THE REMOVAL OF HALOGENATED ORGANIC COMPOUNDS FROM AN ENVIRONMENT
<u>08046874</u>	<u>5334672</u>	150	05/27/1993	AROMATIC POLYMER BLENDS AND METHOD
<u>07985160</u>	<u>5296880</u>	250	12/03/1992	BIFOCAL CONTACT LENS
<u>07928397</u>	Not Issued	161	08/12/1992	AROMATIC POLYMER BLENDS AND METHOD
<u>07736547</u>	Not Issued	161	07/26/1991	AROMATIC POLYMER BLENDS AND METHOD
<u>07646902</u>	<u>5187243</u>	150	01/28/1991	HIGH IMPACT, FLAME RETARDANT, TRANSPARENT BLENDS OF AROMATIC POLY- CARBONATE AND

				POLY(ARYLOXYSILOXANE)
<u>07497155</u>	<u>5041514</u>	150	03/21/1990	POLYMERIC REACTION PRODUCTS OF BIPHENOLS AND ORGANOSILICON MATERIALS AND METHOD FOR MAKING
<u>07353713</u>	Not Issued	161	05/18/1989	POLYMERIC REACTION PRODUCTS OF TETRAALKYLBIPHENOL AND ORGANOSILICON MATERIALS AND METHOD FOR MAKING
<u>07344713</u>	<u>5026890</u>	250	04/28/1989	METHOD AND INTERMEDIATES FOR PREPARATION OF BIS(AMINOALKYL) POLYDIORGANOSILOXANE
<u>07196910</u>	Not Issued	161	05/20/1988	METHOD AND INTERMEDIATES FOR PREPARATION OF BIS(AMINOALKYL) POLYDIORGANOSILOXANE
<u>06768255</u>	<u>4631346</u>	150	08/22/1985	SILYL CARBAMATES AND THEIR USE IN THE PREPARATION OF BIS (AMINOALKYL) DISILOXANE
<u>06743836</u>	<u>4565885</u>	150	06/12/1985	METHOD FOR PREPARING OLEFINIC SILAZANES
<u>06707630</u>	Not Issued	164	03/04/1985	SILYL CARBAMATES AND THEIR USE IN THE PREPARATION OF BIS (AMINOALKYL) DISILOXANE
<u>06691293</u>	<u>4584393</u>	150	01/14/1985	BIS (AMINOALKYL) DISILOXANES AND METHOD AND INTERMEDIATES FOR THEIR PREPARATION
<u>06691292</u>	<u>4584388</u>	150	01/14/1985	METHOD AND COMPOSITION FOR PREPARING AROMATIC POLYCARBOXYLIC ACIDS AND THEIR ANHYDRIDES FROM POLYCARBOXIMIDES
<u>06505636</u>	<u>4578470</u>	150	06/20/1983	BIS-IMIDES CONTAINING HETEROCYCLIC AROMATIC RINGS
<u>06321644</u>	<u>4391996</u>	250	11/16/1981	1,1-DICHLORO-2,2-BIS(HYDROXYPHENYL)ETHYLE
<u>06306859</u>	Not Issued	161	09/29/1981	FLAME RETARDANT PHOSPHORUS/NITROGEN ADDITIVES FOR THERMOPLASTICS
<u>06254815</u>	<u>4329292</u>	150	04/16/1981	CONTINUOUS METHOD FOR MAKING AROMATIC BIS(ETHER PHTHALIC ACID) OR AROMATIC BIS(ETHER ANHYDRIDE)
<u>06253446</u>	<u>4340545</u>	150	04/13/1981	METHOD FOR MAKING AROMATIC BIS (ETHER ANHYDRIDES)
<u>06251019</u>	<u>4318857</u>	150	04/03/1981	METHOD FOR MAKING AROMATIC BIS (ETHER ANHYDRIDES)
<u>06250994</u>	<u>4329496</u>	150	04/03/1981	METHOD FOR MAKING AROMATIC BIS (ETHER PHTHALIC ACID) OR AROMATIC BIS (ETHER ANHYDRIDE)
<u>06250804</u>	<u>4329291</u>	150	04/03/1981	METHOD FOR MAKING AROMATIC BIS (ETHER ANHYDRIDE)S
<u>06124914</u>	<u>4349479</u>	150	02/26/1980	METHOD OF SALVAGING AROMATIC BISIMIDE VALUES

06097350	4273674	150	11/26/1979	THERMAL DETECTING PAINT COMPOSITIONS
----------	---------	-----	------------	--------------------------------------

[Search and Display More Records.](#)

Search Another: Inventor	Last Name	First Name
	<input type="text" value="Webb"/>	<input type="text" value="Jimmy"/>
	<input type="button" value="Search"/>	

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)